FLEXO® FLAME RETARDANT PLUS

AN IDEAL SLEEVING FOR PROJECTS WHEN A HOT KNIFE IS INACCESSIBLE

SPECIALIZED LIGHTWEIGHT RESIN · EXPANDS UP TO 150%

FLEXO® FR PLUS sleeving for electronic and high-tech applications incorporates the specialized resin coating and fray-resistance of FLEXO® PET Plus with the added benefit of flame retardant protection. It cuts easily and cleanly with ordinary scissors, making FLEXO® FR Plus ideal for projects when a hot knife is inaccessible. It has a wide operating temperature range resistant to chemical degradation, UV radiation and abrasion. Its organic combustion inhibitor additionally gives FLEXO® FR Plus a flame resistance rating of VW-1. Also it complies to HL2 according to railway standard DIN EN 45545-2.

SIZING CHART

Nominal Size	Part #	Min Expansion	Max Expansion	*Put-Ups		Available Colors	Lbs/ 100’
				M	L		
⅛”	FRP0.13TB	1/16”	¼”	200’	1,000’	1	0.20
¼”	FRP0.25TB	⅛”	7/16”	200’	1,000’	1	0.30
⅜”	FRP0.38TB	3/16”	½”	125’	500’	1	0.60
½”	FRP0.50TB	¼”	¾”	100’	500’	1	0.80
¾”	FRP0.75TB	½”	1¼”	75’	250’	1	1.20
1¼”	FRP1.25TB	¾”	1¾”	50’	250’	1	1.60
1½”	FRP1.50TB	1”	2½”	40’	250’	1	2.10
1¾”	FRP1.75TB	1¼”	2¾”	30’	250’	1	2.90
2”	FRP2.00TB	1¾”	3⅝”	50’	200’	1	3.40
2½”	FRP2.50TB	2”	3⅞”	50’	200’	1	3.50

Put-Ups: **“M” = Shop Spool and **“L”** = Bulk Spool*



COLORS



Black w/White Tracer (TB)

FEATURES

Material	**Polyethylene Terephthalate**
Grade	**FRP**
Monofilament Diameter	**.010”**
Drawing Number	**TF001FRP-WD**
Cutting	**Scissors/Hot Knife**

CERTIFICATIONS

FAR-25 **DIN EN 45545-2** **VW-1**

TECHFLEX® Braided Sleeving Products

ADVANCED ENGINEERING
Technical Data Sheet

FLEXO FLAME RETARDANT PLUS

ABRASION

Abrasion Resistance	**MEDIUM**
Abrasion Test Machine	Taber 5150
Abrasion Test Wheel	Calibrase H-18
Abrasion Test Load	500g
Room Temperature	72°F
Humidity	46%
Threads Damaged	150 Test Cycles
Small Holes	350 Test Cycles
Material Destroyed	600 Test Cycles
Pre-Test Weight	6,550 mg
Post-Test Weight	6,055 mg
Test End Loss Of Mass Point Of Destruction	495 mg

PHYSICAL PROPERTIES

Monofilament Diameter *(ASTM D-204)*	.010”
Flammability Rating *(FMVSS-302 Approved)*	VW-1
Recommended Cutting	Scissors/Hot Knife
Colors	1
Wall Thickness	.025”
Tensile Strength (Yarn) *(ASTM D-2256 Lbs)*	5
Specific Gravity *(ASTM D-792)*	1.38
Moisture Absorption % *(ASTM D-570)*	.1-.2
Hard Vacuum Data *(ASTM E-595 at 10-5 torr)*	
TML	.19
CVCM	.04
WVR	.06
Smoke D-Max *(ASTM E-662)*	275
Outgassing	Medium
Oxygen Index *(ASTM D-2863)*	31

FLAMMABILITY

Rating	UL VW-1

OPERATING TEMPERATURES

Melt Point *(ASTM D-2117)*	482°F / 250°C
Maximum Continuous	257°F / 125°C
Minimum Continuous	-94°F / -70°C

CHEMICAL RESISTANCE

1=No Effect 2=Little Effect 3=Affected 4=More Affected 5=Severely Affected

Aromatic Solvents	2
Aliphatic Solvents	1
Chlorinated Solvents	3
Weak Bases	1
Salts	1
Strong Bases	2
Salt Water *(0-S-1926)*	1
Hydraulic Fluid *(MIL-H-5606)*	1
Lube Oil *(MIL-L-7808)*	1
De-Icing Fluid *(MIL-A-8243)*	1
Strong Acids	3
Strong Oxidants	2
Esters/Ketones	2
UV Light	1
Petroleum	1
Fungus *(ASTM G-21)*	1
Halogen Free	Yes
RoHS	Yes
SVHC	None

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